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*Sulfides, *High temperature research.

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Vol I (Part 1)	1947
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" <u>II</u>	1948
" <u>III</u>	1948

Severnyi, A. B.

INVESTIGATION OF THE PHYSICAL CONDITIONS
IN SOLAR PROTUBERANCES BY THE EMISSION
LINES WITH SELF-ABSORPTION (Issledovanie Fizi-
cheskikh Uslovii v Solnechnykh Protuberantsekh po
Emissionnym Liniyam s Samopogloshcheniem) tr. by
David Kraus. Mar 56 [24]p. 20 refs.

AmMetSoc-T-R-84.

Order from OTS or SLA \$2.60

63-23113

Rough draft trans. of [Akademiya Nauk SSSR]. Krym-
skaya Astrofizicheskaya Observatoriya. Vzvestiya,
1954, v. 12, p. 33-45.

DESCRIPTORS: *Solar flares, *Solar spectrum, Hydro-
gen, Helium, Line spectrum, Ionization, Calcium,
Electron density, Temperature, *Spectrographic data,
Astrophysics, Absorption.

(Astronomy--Astrophysics, TT, v. 10, no. 5) (over)

63-23113

I. Severnyi, A. B.

II. AmMetSoc-T-R-84

III. American Meteorological
Society, Boston, Mass.

IV. Contract AF 19(604)1364

Office of Technical Services

Spectrophotometric Investigation of the
Mechanism of the Excitation of Filamentary
Nebulas, by S. B. Pikel'ner.

RUSSIAN, per, Izv Krimsk Astrofiz Observ.
Vol XII, 1954, pp 93-117.

NASA TT F-8790

Sci-Phys

Jul 66

306,543

XX

Concerning N. A. Kozyrev's Article 'Explanation
of the Color of Mars by the Spectral Properties of
its Atmosphere, G. A. Tikhov, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Krymsk Astrofiz,
Observ, No 16, 1956, pp 159-161. 9223021

NLL 1173.75 1964 on log.

Amer Meteorol Soc
T-R-423

Sci-

Jul #64

Some Properties of the Martian Atmosphere
Indicated by Spectrophotometric Observations
of 1956, by N. A. Kozyrev.

RUSSIAN, per, Izvestiya Akad Nauk SSSR

Krym. Astrofiz. Observ, 1958, No 18,

pp 61-65.

NLL 7773.75 1964 (T-R-429) (On Loan)

Aug 65

287,012

62-32232

Bumba, V.

THE RELATIONSHIP BETWEEN CHROMOSPHERIC

FLARES AND MAGNETIC FIELDS OF SUNSPOT

GROUPS (Svys' Khromosfernykh Vspyshek s Magnitnymi

Polyami Grupp Solnechnykh Pyaten) tr. by Lorna L.

Coppinger. Jan 59 [14]p. 19 refs. AmMetSoc-T-R-172+

Order from OTS or SLA \$1.60 62-32232

Trans. of Akademiya Nauk SSSR. Krymskaya

Astrofizicheskaya Observatoriya. Izvestiya, 1958, v. 19,

p. 105-114.

DESCRIPTORS: *Solar atmosphere, Solar disturbances,
*Solar flares, *Magnetic fields, Polarization, *Sun-
spots, Astronomical data.

From a comparison of the positions of 69 flares and the
brightening of flocculi in 10 spot groups with the distri-
bution of the magnetic polarity of the groups, it follows
(Astronomy--Astrophysics, TT, v. 9, no. 2) (over)

I. Bumba, V.

II. AmMetSoc-T-R-172

III. American Meteorological
Society, Boston, Mass.

IV. Contract AF 19(604)1936

Office of Technical Services

Mustel', E. R.
METHODS OF STUDYING THE SECULAR LOSS OF
MASS BY STARS OF EARLY SPECTRAL CLASSES.
Pt. 2 of The Problem of the Loss of Matter from
Stationary Stars. [1962] [13]p. 15 refs.
Order from OTS or SLA \$1.60 62-33376

Trans. of [Akademiya Nauk SSSR]. Krymskaya Astro-
fizicheskaya Observatoriya. [Izvestiya (USSR) 1958,
v. 19, p. 153-164.

DESCRIPTORS: Astrophysics, *Stars, *Interstellar
matter, Nebulae.

(Astronomy--Astrophysics, TT, v. 9, no. 9)

62-33376

- I. Title: Corpuscular
radiation
- I. Mustel', E. R.
- II. Title: Problem ...
- III. Translations, New York

Office of Technical Services

Mustel', E. R.
AN EXAMINATION OF THE ENVELOPE CREATED
BY CORPUSCULAR EMISSION FROM THE STAR.
Pt. 3 of the Problem of the Loss of Matter from
Stationary Stars. [1962] [17]p. 7 refs.
Order from OTS or SLA \$1.60 62-33412

Trans. of [Akademiya Nauk SSSR], Krymskaya
Astrofizicheskaya Observatoriya. Izvestiya (USSR)
1959, v. 21, p. 24-39.

DESCRIPTORS: Astrophysics, *Stars, *Interstellar
matter, Nebulae.

(Astronomy--Astrophysics, TT, v. 9, no. 9)

62-33412

- I. Title: Corpuscular
radiation
- I. Mustel', E. R.
- II. Title: Problem...
- III. Translations, New York

Office of Technical Services

Investigation of Spectra of Large Chromospheric Flares,
by A. Severnyi.
RUSSIAN, per Izv. krym. astrofiz. Obs. Vol. 21, 1959,
pp 146-151
CSIRO/No.8189

Sci -
Aug 67

339-445

Severnyi, A. B.
INVESTIGATION OF MAGNETIC FIELDS CON-
NECTED WITH SOLAR FLARES (Issledovanie
Magnitnykh Polci, Svyazannykh so Vspyskami na
Solntse) tr. by M. Slado, [1961] [60]p. (foreign text
included) 10 refs. {CSIRO} Trans. no. 5157.
Order from OTS or SLA \$5.60 61-28637

Trans. of Akademiya Nauk SSSR, Krymskaya Astro-
fizicheskaya Observatoriya, Izvestiya, 1960, v. 22,
p. 12-41.

DESCRIPTORS: *Solar flares, *Magnetic fields, In-
tensity, Measurement, Recording devices.

With the improved solar magnetograph described by
N. S. Nikulin (this journal 19: 3-19, 1958, available in
translation from LC or SLA as 61-19379; and 22: 3-8,
1960, available in translation from OTS or SLA as
(Astronomy--Astrophysics, TT, v. 6, no. 12) (over)

61-28637

I. Severnyi, A. B.
II. CSIRO Trans-5157
III. Commonwealth Scientific
and Industrial Research
Organization (Australia)

Office of Technical Services

Determination of the Magnetic Field Gradient
in the Solar Photosphere, by V. E. Stepanov.

RUSSIAN, per, Iz Krymsk Astrofiz Observ,
Vol XXII, 1960, pp 42-48.

*NASA

Sci - Astron, Phys

Oct 62

Non-Steady Continuous Emission of Bursts, by
A. Severnyi.

RUSSIAN, par, Is Krymskoy Astrofiz Obs, Vol XXII,
1960, pp 67-74.

CSIRO 5156

Sci - Phys

191,685

Apr 62

THE SPECTROPHOTOMETRY OF BRIGHT REVERSALS IN THE H
AND K LINES OF THE SPECTRUM OF SUN-SPOT UMBRAE,
BY E. R. MUSTEL', T. T. TSAP, 9 PP.

RUSSIAN, PER, IZ KRYMSKOY ASTROFIZ OBSERV, VOL XXII,
1960, PP 75-80. 9678202

FTD-TT-62-596

SCI - PHYS
11 OCT 62

212,370

Experimental Determination of Oscillator Strengths
of the Lines of Lead by the Absorption Method, by
M. Z. Khokhlov.

RUSSIAN, per, Iz Ak Nauk, Krymskaya Astrofiz
Observ, Vol XXII, 1960, pp 118-127.

*PL-480

Sci-
Nov 63

Estimate of the Maximum Possible Lead Content
in the Solar Atmosphere According to the Infrared
Lead Line 7229, by M. Z. Khokhlov.

RUSSIAN, per, Iz Krymskaya Astrofiz Observatoriya,
Vol XXII, 1960, pp 128-133.

*PL-480
OTS 63-11135

PST-900
Sci
Jan 63

The Profile of the Sodium D₁ Line and the
Gradient of the Magnetic Field of Sunspots,
by E. A. Baranovskiy and E. V. Stepanov,
RUSSIAN, per, Izvestiya Krymskoi Astro-
fizicheskoi Observatoriy, Vol XXI, 1959,
pp 180-189.
NLL RTS 2799 (ON LOAN OR PURCHASE)

Sci-Astron
Mar 67

321,438

61-23144

Bumba, V.

RESULTS OF AN INVESTIGATION OF THE MAGNETIC FIELD OF SINGLE SUNSPOTS (Rezultaty Issledovaniya Magnitnogo Polya Odnokhnykh Solnechnykh Pyaten). May 61 [58]p. 40 refs. RTS 1773.
Order from OTS or SLA \$5.60 61-23144

I. Bumba, V.
II. RTS-1773
III. Department of Scientific
and Industrial Research
(Gt. Brit.)

Trans. of (Akademiya Nauk SSSR) Krymakaia
Astrofizicheskaya Observatoriya (Izvestiya), 1960,
v. 23, p. 212-252.

DESCRIPTORS: *Sunspots, *Magnetic fields,
Photographic analysis.

177704

Photographic and photoelectric (with magnetograph) methods were used. The variation of the field strength (H) with distance (s) from the centre of the spot is well represented in the penumbra by the formula $H = s/a^3$, where s is the magnetic moment of the field and varies with the spot diameter, from about 10^{27} to 10^{30} G cm³ for the spots studied. The values of $\log_{10} H_{max}$, where (Astronomy--Astrophysics, TT, v. 6, no. 4) (over)

Office of Technical Services

Results of the Study of the Evershed Effect in
Single Sunspots, by V. Bumba, *3472*.

RUSSIAN, per, Iz Krymskoi Astrofiz Observatorii,
Vol XXIII, 1960, pp 253-276.

NLL RTS 1774

Sci - Astron

SEA 61-23623
180,060

Jan 62

61-19674

Dumba, V.
THE CONNECTION BETWEEN THE MAGNETIC
FIELD AND MOTION IN SINGLE SUNSPOTS (Svyaz'
Mezhdru Magnitnym Polem i Dvizheniyem v Odnocnykh
Solnechnykh Pyatnakh). Apr 61 [17]p. 4 refs. RTS 1775.
Order from OTS or SLA \$1.60 61-19674

Trans. of Akademiya Nauk SSSR. Krymshaya
Astrofizicheskaya Observatoriya. Izvestiya, 1960,
v. 23, p. 277-290.

DESCRIPTORS: *Sunspots, *Magnetic fields, Motion

Results of previous observations on the strength and
configuration of the magnetic field in single spots and
the variations of the magnetic field with altitude above
these spots (Akad. Nauk SSSR. Krymshaya Astrofiz.
Observatoriya Izvestiya 23: 212-252, 1960; available in
translation from OTS or SLA for \$5.60 as 61-23144) and
on the Evershed effect in individual spots (Ibid. 253-276;
available in translation from OTS or SLA for \$3.60 as
(Astronomy--Astrophysics, TT, v. 6, no. 3) (over)

I. Dumba, V.
II. RTS-1775
III. Department of Scientific
and Industrial Research
(Gr. Brit.)

175295

Office of Technical Services

62-24627

Stepanov, V. E.
DEPENDENCE OF THE SOLAR MAGNETOGRAPH
READINGS ON THE STRENGTH AND DIRECTION
OF THE FIELD (Zavisimost' Pokazani Solnechnogo
Magnitografu ot Velichiny Napryazhenosti i
Napravleniya Polya) tr. by M. Slade. [1962] [15]p.
(foreign text included) 8 refs. [CSIRO] Trans. 5720.
Order from OTS or SLA \$1.60 62-24627

Trans. of Akademiya Nauk SSSR. Krymskaya
Astrofizicheskaya Observatoriya. Izvestiya, 1960,
v. 23, p. 297-298.

DESCRIPTORS: *Sun, *Magnetic fields, Measurement,
Intensity, Distribution, Magnetometers.

The interval of the variation of strength (H) for which
the readings of the solar magnetograph are propor-
tionnl to $H \cos \gamma$ was determined on the basis of the
theory of formation of absorption lines in a magnetic
(Astronomy--Astrophysics, 'IT', v. 8, no. 4) (over)

- I. Stepanov, V. E.
- II. CSIRO Trans-5720
- III. Commonwealth Scientific
and Industrial Research
Organization (Australia)

Office of Technical Services

THE REGISTRATION OF THE INTENSITY OF ATMOSPHERICS ON
27 kc WITH A DIRECTIONAL ANTENNA SYSTEM, BY N. N.
YERYUSHER, A. I. SMIRNOR, 12 PP.

RUSSINN, PER, IZ KRYMSKOY ASTROFIZ OBSERV, VOL XXIV,
1960, PP 32-40. 9678377

FTD-TT-62-587

SCI - ELECTRON
11 OCT 62

212,336

THE POSSIBLE STRUCTURE OF THE D-REGION DURING SUDDEN
IONOSPHERIC DISTURBANCES, BY YU. I. NESHFOR, ~~XXXX~~
N. A. SAVICH, 11 PP.

RUSSIAN, PER, IZ KRYMSKOY ASTROFIZ OBSERV, VOL XXIV,
1960, PP 41-47. 9678377

FTD-TT-62-587

SCI - GEOPHYS
11 OCT 62

212,337

Ionized Helium Emission in Chromospheric Flares, by
N. V. Steshenko.
RUSSIAN, per, Izvestiya Akademiya Nauk SSSR. Krymskaya
Astrofizicheskaya Observatoriya, Vol 24, 1960,
pp 258-276.
*AFCRL

Sept 72

Severnyi, A. B.
SOME FEATURES OF PLASMA MOTION IN SOLAR
MAGNETIC FIELDS (Nekotore Osobennosti
Dvizheniya Plazmy v Solnechnykh Magnitnykh Polyakh)
tr. by M. Slade. [1961] [25]p. (foreign text included)
8 refs. [CSIRO] Trans. no. 5457.
Order from OIS or SLA \$2.60 62-13609

Trans. of [Akademiya Nauk SSSR]. Krymskaya
Astrofizicheskaya Observatoriya. Izvestiya, 1960,
v. 24, p. 281-292.

DESCRIPTORS: *Sunspots, Sun, *Magnetic fields,
*Plasma physics, Motion, Solar atmosphere, Atmos-
phere, Measurement.

The magnetic field (of the order of 60 Gs) and simul-
taneously the radial velocities and central intensities
in the center of the H β line were recorded in the
(Astronomy--Astrophysics, TT, v. 7, no. 10) (over)

62-13609

- I. Severnyi, A. B.
- II. CSIRO Trans-5457
- III. Commonwealth Scientific
and Industrial Research
Organization (Australia)

Office of Technical Services

Steshenko, N. V. and Khokhlova, V. L.
HELIUM EMISSION OF THE CHROMOSPHERIC FLARE
OF 14 SEP 58 (Gellevaya Emissiya Khromosfernoi
Vepyski 14 Sentyabrya 1958 G.) tr. by M. Slade.
[1962] [19]p. (foreign text included) 7 refs. [CSIRO]
Trans. 5719.

Order from OTS or SLA \$1.60

62-24626

Trans. of Akademiya Nauk SSSR. Krymskaya Astro-
fizicheskaya Observatoriya. Izvestiya, 1960, v. 4, no. 4,
p. 322-330.

24,

DESCRIPTORS: *Solar flares, *Spectrographic data,
*Helium, Spectrophotometers, Radio signals, Radio
astronomy, Astronomy.

The emission lines $\lambda\lambda$ 3965, 5016, 6678, 5876 and 4713
were studied in a flare on the disk. With the exception
of λ 5876, the above He I lines have no self-absorption.
The intensities of optically thin lines were used for
(Astronomy--Astrophysics, TT, v. 8, no. 4) (over)

62-24626

- I. Steshenko, N. V.
- II. Khokhlova, V. L.
- III. CSIRO Trans-5719
- IV. Commonwealth Scientific and
Industrial Research Organi-
zation Australia)

Office of Technical Services

Gershberg, R. E.

THE EXPANSION OF H II REGIONS AND THE
FORMATION OF PERIPHERAL STRUCTURES IN
DIFFUSE NEBULAE (Rasshirenie Oblastei H II i
Obrazovanie Periferitnykh Struktur v Diffuznykh
Tumannostyakh). [1964] [20p] 21 refs
Order from OTS, SLA, or ETC \$1.60 TT-64-14752

Trans. of [Akademiya Nauk SSSR]. Krymskaya
Astrofizicheskaya Observatoriya. Izvestiya, 1961,
v. 25, p. 76-87.

(Astronomy, TT, v. 11, no. 11)

TT-64-14752

I. Gershberg, R. E.

Office of Technical Services

63-19147

Stepanov, V. E.
ON MOTIONS AT VARIOUS LEVELS IN THE SUN'S
"ATMOSPHERE" (K Voprosu o Dvizhenii na
Razlichnykh Urovnyakh Atmosfery Solntsa) tr. by V. E.
Solodukhin. [1963] [36]p. (foreign text included) 27 refs.
CSIRO Trans. no. 6010.
Order from OTS or SLA \$3.60

63-19147

Trans. of Akademiya Nauk SSSR. Krymskaya Astro-
fizicheskaya Observatoriya. ~~Vzvestiya~~ 1961, v. 25,
p. 154-173.

DESCRIPTORS: *Sun, *Gases, Sunspots, Motion,
Velocity, Turbulence, Astrophysics, *Solar
atmosphere.

(Astronomy--Astrophysics, TT, v. 10, no. 7)

- I. Stepanov, V. E.
- II. CSIRO Trans-6010
- III. Commonwealth Scientific
and Industrial Research
Organization (Australia)

Office of Technical Services

On the Formation of Absorption Lines in a
Magnetic Field, by D. E. Rachkovskiy,
RUSSIAN, per, Izvestiya Krymskoi Astro-
fizicheskoi Observatoriy, Vol XXV, 1961,
pp 277-280.
NLL RTS 2804 (On Loan or Purchase)

Sci-Astron
Mar 67

321,440

The Ultraviolet Solar Spectrum in the Region
2470-3200 Å, by V. P. Eschakov, A. V. Yakoleva,
46 pp.

RUSSIAN, per, Izvestiya Krynokoi Astrofizicheskoi
Observatorii, Akad, Nauk, SSSR, Vol XXVII, 1962,
pp 5-43.

Navy Tr 3300/NRL 923

Sci
Feb 63

221,503

Ultraviolet Be I Lines in the Solar Spectrum,
by V. P. Machalov, M. Z. Khokhlov, 13 pp.

RUSSIAN, per, Izvestiya Kymakoi Astrofizicheskoi
Observatorii, Akad. Nauk SSSR, Vol XXVII, 1962,
pp 44-51.

Re:

Navy Tr 3301/ERL 924

Sci

Feb 63

07.7.63 - 11,504

221,504

Magneto-optical Effects in Spectral Lines
of Sunspots, by D. M. Rachkovskiy,
RUSSIAN, per, Izvestiya Krymskoi Astro-
fizicheskoy Observatoriy, Vol XXVII, 1962,
pp 148-161.
NLL RTS 2816 (On Loan or Purchase)

Sci-Astron

Mar 67

320,441

1

Nomograms for Determining the Magnetic Field
Strenght and Its Inclination from the Longi-
tudinal and Transverse Components Recorded
by a Magnetograph, by A. A. Garunov,
RUSSIAN, per, Izvestiya Krymskoi Astro-
fizicheakoi Observatroiy, Vol XXVIII, 1962,
pp 224-229.
NLL RTS 2813 (On Loan or Purchase)

Sci-Astron
Mar 67

321,439

Experimental Application of Television
Technique for Observation of Stars, by
Ye. S. Agapov, V. F. Anisimov.

RUSSIAN, per, Iz Ak Nauk SSSR Krymukoy
Astrofiz Obser, Moscow, 1963, pp 3-18.

*FTD-MT-64-411
GOV'T USE ONLY

Sci - Earth Sci & Astron
Oct 64